## PATENT COOPERATION TREAT

### PCT.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

| Applicant's or agent's file reference ACADIA.033VP                                 | FOR FURTHER ACTION                                                              | See item 4 below                                               |  |  |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|--|--|
| International application No.<br>PCT/US2004/004765                                 | International filing date (day/month/year) 18 February 2004 (18.02.2004)        | Priority date (day/month/year) 19 February 2003 (19.02.2003) ] |  |  |
| International Patent Classification (IP <sup>7</sup> C07D 239/22, A61K 31/513, C07 | C) or national classification and IPC 7C 225/18, C07D 231/06, 239/26, 281/10, A | 61K 31/135, 31/415, 31/505, 31/554                             |  |  |
| Applicant<br>ACADIA PHARMACEUTICALS IN                                             | C.                                                                              |                                                                |  |  |

| 1. | This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). |                                                                                                                                                                                                      |  |  |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 2. | This REPORT consists of a tot                                                                                                                                                       | al of 12 sheets, including this cover sheet.                                                                                                                                                         |  |  |  |
|    | In the attached sheets, any refer<br>to the international preliminary                                                                                                               | rence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.                                                     |  |  |  |
| 3. | This report contains indications                                                                                                                                                    | s relating to the following items:                                                                                                                                                                   |  |  |  |
|    | Box No. I                                                                                                                                                                           | Basis of the report                                                                                                                                                                                  |  |  |  |
|    | Box No. II                                                                                                                                                                          | Priority                                                                                                                                                                                             |  |  |  |
|    | Box No. III                                                                                                                                                                         | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability                                                                                                     |  |  |  |
|    | Box No. IV                                                                                                                                                                          | Lack of unity of invention                                                                                                                                                                           |  |  |  |
|    | Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or indus applicability; citations and explanations supporting such statement               |                                                                                                                                                                                                      |  |  |  |
|    | Box No. VI                                                                                                                                                                          | Certain documents cited                                                                                                                                                                              |  |  |  |
|    | Box No. VII                                                                                                                                                                         | Certain defects in the international application                                                                                                                                                     |  |  |  |
|    | Box No. VIII                                                                                                                                                                        | Certain observations on the international application                                                                                                                                                |  |  |  |
| 4. | The International Bureau will c not, except where the applicant date (Rule 44bis .2).                                                                                               | communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority |  |  |  |
|    |                                                                                                                                                                                     |                                                                                                                                                                                                      |  |  |  |

|                                                                                         | Date of issuance of this report<br>19 August 2005 (19.08.2005) |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Authorized officer  Dorothée Mülhausen                         |
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PCT

From the INTERNATIONAL SEARCHING AUTHORITY

| То:                                                        |                                            |                                                                                      | PCT                                       |  |  |
|------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------|--|--|
| see form PCT/ISA/220                                       |                                            | WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1) |                                           |  |  |
|                                                            |                                            | Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)                 |                                           |  |  |
| Applicant's or agent's file reference see form PCT/ISA/220 |                                            | FOR FURTHER ACTION See paragraph 2 below                                             |                                           |  |  |
| International application No.<br>PCT/US2004/004765         | International filing date (date 18.02.2004 | day/month/year)                                                                      | Priority date (day/month/year) 19.02.2003 |  |  |
|                                                            |                                            |                                                                                      | 281/10, A61K31/135, A61K31/415,           |  |  |
| Applicant ACADIA PHARMACEUTICALS IN                        | NC.                                        |                                                                                      |                                           |  |  |

| 1. | This | opinion | contains | indications | relating t | to the | following | items |
|----|------|---------|----------|-------------|------------|--------|-----------|-------|
|----|------|---------|----------|-------------|------------|--------|-----------|-------|

Box No. 1 Basis of the opinion Box No. II **Priority** Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☑ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

<u>)</u>

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer** 

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Telephone No. +49 89 2399-8701





International application No. PCT/US2004/004765

### IAP20 Rec'd PCT/FTO 10 FEB 2006

|    | Box 1       | lo. I             | Basis of the opinion                                                                                                                                                                                                                                                                                                                                |
|----|-------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | With the la | regard<br>nguaç   | to the language, this opinion has been established on the basis of the international application in ge in which it was field, unless otherwise indicated under this item.                                                                                                                                                                           |
|    | la          | angua             | binion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).                                                                                                                     |
| 2. | With i      | regard<br>ssary 1 | I to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:                                                                                                                                                                   |
|    | a. typ      | e of m            | naterial:                                                                                                                                                                                                                                                                                                                                           |
|    |             | a se              | equence listing                                                                                                                                                                                                                                                                                                                                     |
|    |             | tab               | le(s) related to the sequence listing                                                                                                                                                                                                                                                                                                               |
|    | b. for      | mat of            | f material:                                                                                                                                                                                                                                                                                                                                         |
|    |             | in v              | vritten format                                                                                                                                                                                                                                                                                                                                      |
|    |             | in c              | computer readable form                                                                                                                                                                                                                                                                                                                              |
|    | c. tim      | e of fi           | ling/furnishing:                                                                                                                                                                                                                                                                                                                                    |
|    | . 🗀         | cor               | ntained in the international application as filed.                                                                                                                                                                                                                                                                                                  |
|    |             | file              | d together with the international application in computer readable form.                                                                                                                                                                                                                                                                            |
|    |             | furi              | nished subsequently to this Authority for the purposes of search.                                                                                                                                                                                                                                                                                   |
| 3. | )<br>. (    | nas be<br>copies  | ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto<br>een filed or furnished, the required statements that the information in the subsequent or additional<br>is identical to that in the application as filed or does not go beyond the application as filed, as<br>priate, were furnished. |
| 4. | Addit       | tional            | comments:                                                                                                                                                                                                                                                                                                                                           |

International application No. PCT/US2004/004765

|    | Box | No. II            | Priority                                                                                                                                                                                                                                                                       |
|----|-----|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | ×   | The fol           | lowing document has not been furnished:                                                                                                                                                                                                                                        |
|    |     | $\boxtimes$       | copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).                                                                                                                                                                                    |
|    |     |                   | translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).                                                                                                                                                                             |
|    |     | Consec<br>neverth | quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.                                                                               |
| 2. |     | has be            | pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date. |
| 3. | Add | ditional o        | observations, if necessary:                                                                                                                                                                                                                                                    |

International application No. PCT/US2004/004765

|             | k No. III 'Non-establishment o<br>Dicability                                                                                                                                                                              | of op          | inion with regard to novelty, inventive step and industrial                                                                                    |  |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|             |                                                                                                                                                                                                                           |                | ntion appears to be novel, to involve an inventive step (to be non have not been examined in respect of:                                       |  |  |
|             | the entire international applicat                                                                                                                                                                                         | ion,           |                                                                                                                                                |  |  |
| $\boxtimes$ | claims Nos. 2-5, 6-12 (all partly                                                                                                                                                                                         | /), 14         | -18, 19-33 (all partly)                                                                                                                        |  |  |
| bec         | ause:                                                                                                                                                                                                                     |                |                                                                                                                                                |  |  |
| Ø           |                                                                                                                                                                                                                           |                | the said claims Nos. 25-32 (as regards industrial applicability) relate a does not require an international preliminary examination (specify): |  |  |
|             | see separate sheet                                                                                                                                                                                                        |                |                                                                                                                                                |  |  |
|             | the description, claims or draw unclear that no meaningful opin                                                                                                                                                           | ings<br>nion ( | (indicate particular elements below) or said claims Nos. are so could be formed (specify):                                                     |  |  |
|             | the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.                                                                                              |                |                                                                                                                                                |  |  |
|             | no international search report has been established for the whole application or for said claims Nos. 2-5, 6-12 (all partly), 14-18, 19-33 (all partly)                                                                   |                |                                                                                                                                                |  |  |
|             | the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:                                                                   |                |                                                                                                                                                |  |  |
|             | the written form                                                                                                                                                                                                          |                | has not been furnished                                                                                                                         |  |  |
|             |                                                                                                                                                                                                                           |                | does not comply with the standard                                                                                                              |  |  |
| -           | the computer readable form                                                                                                                                                                                                |                | has not been furnished                                                                                                                         |  |  |
|             |                                                                                                                                                                                                                           |                | does not comply with the standard                                                                                                              |  |  |
|             | the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. |                |                                                                                                                                                |  |  |
|             | See separate sheet for further                                                                                                                                                                                            | deta           | ils                                                                                                                                            |  |  |

International application No. PCT/US2004/004765

|    |                        | ·                                                 |                            |                                |                                                                              |  |  |  |  |
|----|------------------------|---------------------------------------------------|----------------------------|--------------------------------|------------------------------------------------------------------------------|--|--|--|--|
|    | Box No. I              | V Lack of unity of                                | invention                  |                                |                                                                              |  |  |  |  |
| 1. | ⊠ In res               | ponse to the invitation                           | n (Form PCT/I              | SA/206) to                     | pay additional fees, the applicant has:                                      |  |  |  |  |
|    | . 🗆                    | paid additional fees                              | <b>i.</b>                  |                                |                                                                              |  |  |  |  |
|    |                        | paid additional fees                              | under protes               | t.                             |                                                                              |  |  |  |  |
|    |                        | not paid additional                               | fees.                      |                                |                                                                              |  |  |  |  |
| 2. | ☐ This / the ap        | Authority found that the oplicant to pay addition | e requirement<br>nal fees. | t of unity o                   | f invention is not complied with and chose not to invite                     |  |  |  |  |
| 3. | This Author            | ority considers that th                           | e requirement              | of unity o                     | f invention in accordance with Rule 13.1, 13.2 and 13.3 is                   |  |  |  |  |
|    | □ compli               | ed with                                           |                            |                                |                                                                              |  |  |  |  |
|    | not cor                | mplied with for the foll                          | owing reason               | s:                             |                                                                              |  |  |  |  |
|    | see s                  | separate sheet                                    |                            |                                |                                                                              |  |  |  |  |
| 4. | Conseque               | ently, this report has b                          | een establish              | ed in resp                     | ect of the following parts of the international application:                 |  |  |  |  |
|    | ☐ all part             | □ all parts.                                      |                            |                                |                                                                              |  |  |  |  |
|    | ☑ the par              | rts relating to claims f                          | los. 1, 6-12 (a            | ali partiy),                   | 13, 19-33 (all partly)                                                       |  |  |  |  |
|    |                        |                                                   |                            |                                |                                                                              |  |  |  |  |
|    | Box No. V<br>industria | V Reasoned state<br>I applicability; citation     | ment under Fons and expl   | Rule 43 <i>bis</i><br>anations | .1(a)(i) with regard to novelty, inventive step or supporting such statement |  |  |  |  |
| 1. | Statemen               | t                                                 |                            |                                |                                                                              |  |  |  |  |
|    | Novelty (P             | <b>N</b> )                                        | Yes: Cla<br>No: Cla        | aims<br>aims                   | 1, 6-12 (all partly), 13, 19-33 (all partly)                                 |  |  |  |  |
|    | Inventive              | step (IS)                                         | Yes: Cla                   |                                | 1, 6-12, 13, 19-33                                                           |  |  |  |  |
|    | Industrial             | applicability (IA)                                |                            | aims<br>aims                   | 1, 6-12 (all partly), 13, 19-24 (all partly), 33 (partly)                    |  |  |  |  |
| 2. | Citations              | and explanations                                  |                            |                                |                                                                              |  |  |  |  |
|    | see sepa               | rate sheet                                        |                            |                                |                                                                              |  |  |  |  |

IAP20 Rec'd PCT/PTO 10 FEB 2006
International application No.

PCT/US2004/004765

#### Re Item III.

The present claims 25-32 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT.

Consequently, no opinion will be formulated with respect to industrial applicability of the subject-matter of this claim.

[For the assessment of the aforesaid claim on the question whether it is industrially applicable, no unified criteria exist in the PCT. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but will allow, however, claims to a (known) compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.]

#### Re Item IV.

The present application lacks unity within the meaning of Rule 13 PCT for the following reasons:

The document J. Med. Chem. **45**(23), 4950-4953 (2002) **(D1)** discloses (cf., page 4951, column 1, scheme 1) the compound **AC-7954** which is said to have *urotensin II* agonistic activity (cf., page 4951, column 1, last paragraph)(cf., e.g., pages 133-134, table 1).

In the light of **D1**, the **problem** underlying the present application resides in the provision of <u>further</u> (alternative) <u>urotensin II agonists</u>.

Accordingly, the present application proposes

(i) the 5-(2-aminoethyl)-5,6-dihydro-3H-pyrimidin-2-one derivatives of the present formula I (cf., the present compound claim 1),

- (ii) the 1-(2-aminoethyl)-cyclopropane derivatives of the present formula II (cf., the present compound claim 2),
- (iii) the 4-(2-aminoethyl)-4,5-dihydro-1H-pyrazole derivatives of the present formula III (cf., the present compound **claim 3**),
- (iv) the 5-(2-aminoethyl)-pyrimidine derivatives of the present formula IV (cf., the present compound claim 4), and
- (v) the 3-(2-aminoethyl)-2,3-dihydro-benzo-[b]-[1,4]-thiazepine derivatives of the present formula V (cf., the present compound claim 5)

in order to solve the given problem.

The only structural feature discernible, which is shared by all of the compounds according to the present formulae (I) - (V) is the

#### R<sub>3</sub>R<sub>7</sub>N-CH(R<sub>4</sub>)-CH(R<sub>5</sub>)- substituted ring

(wherein  $R_3$  -  $R_5$  and  $R_7$  are as defined in the present claim 1).

The document **D1**, however, already teaches the compound 3-(4-Chlorophenyl)-3-(2-(dimethylamino)ethyl)isochroman-1-one comprising this structural element (cf., the *3-(2-(dimethylamino)ethyl) substituted isochromane* for the *same use* as the compounds of the present application.

As the only structural feature which is common to all of the present compounds (i.e., the  $R_3R_7N$ -CH( $R_4$ )-CH( $R_5$ )- substituted ring) is not novel (cf., **D1**), this structural feature cannot represent the "special technical feature" within the meaning of Rules 13.1 and 13.2 PCT.

The present application thus relates to different solutions to the given technical problem (i.e., the provision of <u>further urotensin II agonists</u>) which are not linked by a single general inventive concept as set forth in Rule 13 PCT).

Hence it is considered that the following separate inventions or groups of inventions are not so linked as to form a single general inventive concept:

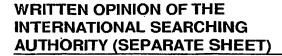
International application No.

PCT/US2004/004765

- the compounds of the present general formula I, which differ from the compound AC-7954 of D1 in that the 2-aminoethyl group is attached to a 5,6-dihydro-3H-pyrimidin-2-one ring rather than an isochroman-1-one ring (cf., the present claims 1, 6-12 (all partly), 13 and 19-33 (all partly));
- 2. the compounds of the present general **formula II**, which differ from the compound **AC-7954** of **D1** in that the 2-aminoethyl group is attached to a *cyclopropane* ring rather than an *isochroman-1-one* ring (cf., the present **claims 2**, **6-12** (**all partly**) and **17-33** (**all partly**));
- 3. the compounds of the present general **formula III**, which differ from the compound **AC-7954** of **D1** in that the 2-aminoethyl group is attached to a 4,5-dihydro-1H-pyrazole ring rather than an isochroman-1-one ring (cf., the present claims 3, 6-12 (all partly), 14 and 17-33 (all partly));
- 4. the compounds of the present general formula IV, which differ from the compound AC-7954 of D1 in that the 2-aminoethyl group is attached to a *pyrimidine* ring rather than an *isochroman-1-one* ring (cf., the present claims 4, 6-12 (all partly), 15 and 19-33 (all partly));
- 5. the compounds of the present general **formula V**, which differ from the compound **AC-7954** of **D1** in that the 2-aminoethyl group is attached to a 2,3-dihydro-benzo-[b]-[1,4]-thiazepine ring rather than an isochroman-1-one ring (cf., the present claims 5, 6-12 (all partly), 16 and 17-33 (all partly);

As no additional search fee has been paid, the International Search Report has been limited to the subject-matter as defined under item 1 above, i.e., to the compounds of the present **formula I**, the method for their preparation, pharmaceutical compositions comprising them, and their use as medicaments (cf., the present **claims 1**, **6-12** (all partly), **13**, **19-33** (all partly).

As the International Search Report forms the basis of this Written Opinion, the following statement on the patentability of the present subject-matter can only be regarded as being complete in respect of the present claims 1 and 13 (the present claims 6-12 and 19-33 have only been examined as far as the compounds of formula I are concerned).



International application No.

PCT/US2004/004765

In so far as the following letter refers to claims 6-12 and 19-33 it should only be taken to refer to the <u>searched</u> scope of these claims.

#### Re Item V.

The following documents are considered to be relevant:

D1: ...... Journal of Medicinal Chemistry 45(23), 4950-4953 (7 November 2002);

**D2**: ....... Organic Letters **5**(9), 1551-1554 (1 May 2003);

The current assessment is based on the assumption that all claims enjoy priority rights from the filing date of the priority document.

If it later turns out that this is not correct, the document **D2** as cited in the International Search Report could become relevant.

#### 1. NOVELTY (Article 33(2) PCT):

The present application satisfies the criterion set forth in Article 33(2) PCT because the subject-matter of **claims 1**, **6-13** and **19-33** is new in respect of prior art as defined in the regulations (Rule 64(1)-(3) PCT):

The compounds of the present independent **claim 1** are novel over the prior art **D1** on account of the *5,6-dihydro-3H-pyrimidin-2-one* ring (cf., the *isochromanon-1-one* ring of the compound **AC-7954** of **D1**).

International application No.

PCT/US2004/004765

#### 2. INVENTIVE STEP (Article 33(3) PCT):

The present application does not satisfy the criterion set forth in Article 33(3) PCT because the **full scope** of the **claims 1**, **6-13** and **19-33** does not appear to involve an inventive step (Rule 65(1)(2) PCT):

The document **D1** - which represents the **closest prior art** - discloses (cf., page 4951, column 1, scheme 1) the compound **AC-7954** which is said to have *urotensin II* agonistic activity (cf., page 4951, column 1, last paragraph)(cf., e.g., pages 133-134, table 1).

The compounds of the present independent claim 1 differ from the said compound AC-7954 essentially in that they are 5-(2-aminoethyl)-5,6-dihydro-3H-pyrimidin-2-one derivatives rather than 3-(2-aminoethyl)-isochromanon-1-one derivatives.

In the light of **D1**, the **problem** underlying the present application resides in the provision of <u>further</u> (alternative) <u>urotensin II agonists</u>.

Accordingly, the present application proposes the compounds of the present **claim 1** in order to **solve** the given problem.

Given the structural differences between the prior art compound **AC-7954** (cf., the *isochromanon-1-one* ring) and the present 5-(2-aminoethyl)-5,6-dihydro-3H-pyrimidin-2-one derivatives, it is considered that the person skilled in the art could not have predicted that the present 5-(2-aminoethyl)-5,6-dihydro-3H-pyrimidin-2-one derivatives would (also) possess *urotensin II agonistic activity*.

It is therefore considered that those compounds of the present **claim 1** which actually solve the give problem are regarded to be non-obvious in the light of the prior art.

Having regard to (i) the prior art **D1** and (ii) the presently tested compound of the example 2 it is considered that it has not been made credible yet that **essentially all** of the presently claimed compounds represent a solution to the underlying problem. It would appear from **D1** and the presently tested example that the presence of (i) a dialkylaminoethyl group (cf., the broad definitions of the present substituent groups  $R_3$  and  $R_7$  and the use of the term "optionally substituted") and (ii) a 4-chlorophenyl group (cf., the broad definition of the present substituent group  $R_6$ ) is essential for the urotensin II agonistic activity.

International application No.

PCT/US2004/004765

It is therefore considered that the *urotensin II agonistic activity* has not been made credible yet for the **full scope** of the present compound **claims 1** and **6-13** 

Accordingly, an inventive step cannot be acknowledged (yet) for the **full scope** of the present the **claims 1**, **6-13** and **19-33** (Article 33(3) PCT).

#### 3. INDUSTRIAL APPLICABILITY (Article 33(4) PCT):

The subject-matter of the present claims 1, 6-13, 19-24 and 33 concerns chemical compounds, a chemical process and a pharmaceutical composition and is therefore considered to be industrial applicable in the sense of Article 33(4) PCT.

#### 4. MISCELLANEOUS:

- 4.1. The document **D1** should have been cited (Rule 5.1(a)(ii) PCT).
- 4.2. The explanation of the term "C<sub>3-8</sub>-cycloalkyl" (cf., page 7, lines 16-18 and 24-27) as far as the presence of "one or more unsaturated bonds" is concerned does not correspond with the usual meaning of this term (the person skilled in the art would not understand the term "cycloalkyl" as used in the present claims as also including "cycloalkenyl groups).

The same observation applies mutatis mutandis to the explanation of the terms "aryl" and "heteroaryl" as given on page 8. The person skilled in the art would not understand these terms as also referring to aryl and heteroaryl groups "...optionally carrying one or more substituents selected from halogen, hydroxy,

amino, etc....".

These passages thus create inconsistencies between the claims and the description, which lead to a doubt concerning the extent of protection afforded by the claims, thus rendering the claims unclear (Article 6 PCT).